

CLAIMS:

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A tube plug kit comprising:
a tube plug having a housing member and a locking member, the housing member having a longitudinal bore comprising a smooth portion communicating with a threaded portion, the locking member mounted on the housing member;
an insert member having a first threaded end portion received within the threaded portion of the bore, an enlarged portion positioned to be drawn within the smooth portion of the longitudinal bore in response to rotation of the insert member in the longitudinal bore and a drive portion configured to receive a torque applying tool in a rotationally driving manner; and
a torque limiting region located in said insert member to limit an amount of torque said drive portion can transmit to said first threaded end portion.
2. A tube plug kit according to claim 1, wherein said drive portion comprises a substantially cylindrical extension formed on said insert member.
3. A tube plug kit according to claim 2, wherein said drive portion comprises a threaded region on said cylindrical extension to receive said torque applying tool.
4. A tube plug kit according to claim 3, wherein said threaded region is applied to an outer surface of said cylindrical extension.
5. A tube plug kit according to claim 2, wherein said drive portion comprises a recess for receiving said torque applying tool.
6. A tube plug kit according to claim 2, wherein said cylindrical

extension comprises a portion with a reduced diameter forming said torque limiting region.

7. A tube plug kit according to claim 2, wherein said cylindrical extension comprises a weakened portion forming said torque limiting region.

8. A tube plug kit according to claim 1, wherein said first threaded end portion and said drive portion are joined together at a joint, and said joint comprises said torque limiting region.

9. A tube plug kit according to claim 1, further including a driving tool for engaging with said drive portion.

10. A tube plug kit according to claim 9, wherein said driving tool comprises a rod having a torque transmitting drive surface at a first end to engage with said drive portion of said insert member and a drive surface at a second end for engagement by a torque applying tool.

11. A drive system for an insert member to be threadingly engaged with a tube plug comprising:

an insert member having a first threaded end portion to be received within the tube plug and a drive portion configured to receive a torque applying tool in a rotationally driving manner; and

a torque limiting region located in said insert member to limit an amount of torque said drive portion can transmit to said first threaded end portion.

12. A drive system according to claim 11, wherein said drive portion comprises a substantially cylindrical extension formed on said insert member.

13. A drive system according to claim 12, wherein said drive portion

comprises a threaded region on said cylindrical extension to receive said torque applying tool.

14. A drive system according to claim 13, wherein said threaded region is applied to an outer surface of said cylindrical extension.

15. A drive system according to claim 12, wherein said drive portion comprises a recess for receiving said torque applying tool.

16. A drive system according to claim 12, wherein said cylindrical extension comprises a portion with a reduced diameter forming said torque limiting region.

17. A drive system according to claim 12, wherein said cylindrical extension comprises a weakened portion forming said torque limiting region.

18. A drive system according to claim 11, wherein said first threaded end portion and said drive portion are joined together at a joint, and said joint comprises said torque limiting region.

19. A tube plug kit comprising:
a tube plug having a housing member and a locking member, the housing member having a longitudinal bore comprising a smooth portion communicating with a threaded portion, the locking member mounted on the housing member;
an insert member having a first threaded end portion received within the threaded portion of the bore, an enlarged portion positioned to be drawn within the smooth portion of the longitudinal bore in response to rotation of the insert member in the longitudinal bore and a cylindrical, extending drive portion comprising an externally threaded region to receive a torque applying tool in a rotationally driving manner; and

a torque limiting region comprising a reduced diameter portion located in said insert member to limit an amount of torque said drive portion can transmit to said first threaded end portion.

20. A tube plug kit according to claim 19, further including a driving tool comprising a rod having a torque transmitting drive surface at a first end to engage with said drive portion of said insert member and a drive surface at a second end for engagement by a torque applying tool.